



Spaceport News

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John F. Kennedy Space Center

Center Director wins Debus Award

Kennedy Space Center Director Roy Bridges was honored as the 2001 Dr. Kurt H. Debus Award Recipient on April 6 in recognition of his progressive, visionary leadership and contributions to space technology and exploration.

The Florida Committee of the National Space Club presented the award during the Twelfth Annual Dr. Kurt H. Debus Award Dinner held at the KSC Visitor Complex Debus Conference Facility.

The Debus Award was first given in 1980. Created to recognize significant achievements and contributions made in Florida to the American aerospace effort, the award is named for the KSC's first director, Dr. Kurt H. Debus.

"I am honored to become a recipient of this award," said Bridges. "A number of space program pioneers and innovators I greatly admire have received the Debus Award over the years and I count myself fortunate to be listed among their company. Any success



Ed Gormel, left, chairman of the National Space Club Florida Committee, congratulates KSC Director Roy Bridges, who was honored with the 2001 Dr. Kurt H. Debus Award.

that I have had I attribute to the great team here at Kennedy Space Center and our partners in industry and academia."

During Bridges' tenure as director, he has created a vision for KSC 25 years into the future;

reorganized the management structure to better position KSC for spaceport technology research and development; created and strengthened strategic partnerships with the State of Florida, the 45th Space Wing, academia and industry; and

introduced world-class safety practices to the Center.

A veteran NASA astronaut as well as former commander of what is now the 45th Space Wing on Florida's Space Coast, Bridges was nominated by National Space Club Florida Committee members and selected as this year's honoree by a vote of the organization's steering committee.

"Roy Bridges was an easy choice," said Ed Gormel, executive director of the Spaceport Florida Authority and chairman of the National Space Club Florida Committee. "I have worked professionally either for or with Roy for some 15 years and have always been impressed by his talents, initiative and vision."

Bridges is the second KSC director to be so honored during the 12-year history of the award. Forrest McCartney was the first, earning his trophy in 1992.

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STS-100 launch draws crowd

The launch of STS-100 on April 19 drew an unusually large number of international guests to Kennedy Space Center and boosted demand for NASA Causeway car passes and KSC Visitor Complex tickets for causeway launch viewing.

The highly international nature of the mission – including Space Station elements from Italy and Canada and astronauts from four space agencies – and the afternoon timing of the launch, served to draw a bigger crowd of spectators to the Center.

A historic signing before the launch by NASA Administrator Daniel Goldin and Italian Space Agency President Sergio DeJulio also heightened the profile of the mission. The ISA signed a "framework of cooperation" to build the Habitation Module for the Space Station.

Approximately 15,000 guests viewed the launch from the causeway and 750 more from the Turn Basin. About 5,300 VIPs attended the launch, spilling over from the Banana River Viewing Site and filling the Static Test Road Site. Approximately 1,000 media were on site for the launch, up from the usual range of 400 to 600.



A group watches the STS-100 launch from the NASA Causeway.

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Recognizing Our People

Awards

Invention Awards

NOx Scrubber Liquor to Fertilizer

Dale Lueck
Clyde Parrish
Paul Gamble
Andrew Kelly

Remote Monitoring Alarm System

Tracy Bierman
Houston Galloway
Pedro Medelius
Robert Swindle
Robert Stute

Ultrasonic Leak Detector

Robert Youngquist
William Haskell
Robert Cox
J. Steven Moerk
Jimmy Polk
James Strobel

Non-Intrusive Cable Tester

Pedro Medelius
H. James Simpson

Scaling Device for Photographic Images

Robert Youngquist
Robert Cox
William Haskell
Jorge Rivera
Charlie Stevenson

UV-IR Flame Detector

Pedro Medelius
Angle Lucena
Jeffrey Rees
Gregory Hall
H. James Simpson
Harvey Smith
Heidi Barnes

GOx Vent Hood

Robert Youngquist
James Strobel
William Haskell
Jimmy Polk

Management assistants honored



Valarie Franklin

Valarie Franklin has more than 72 "children" in the Labs and Testbeds Division within the Spaceport Engineering and Technology Directorate.

"We're a family here, and they're

all my children," said Franklin. "It's my job to keep them organized on schedule."

Franklin's optimism and high-energy helps her provide secretarial and administrative support services to lab personnel.

She is known for her willingness to help out others, asking every manager on the end of each day if there is anything else they need before she leaves.

"Valarie puts a personal touch and worth to her job," said Tim Bollo, chief of Labs and Testbeds Division. "Her dedication and good sense of humor make her not only wonderful at her job, but a great friend."

Franklin is also outstanding as an active leader in the community

and as a KSC volunteer.

Some of her involvements include Space Congress and Tiger Team hostess, KSC Search Program mentor, KSC Annual Picnic volunteer worker, Black Employee Strategy Team representative, Habitat for Humanity worker, Leadership Brevard representative and vice president of the Mt. Moriah AME Church Choir.

Franklin has been a vital part of the Labs and Testbed Division since 1991.

She inspires and motivates others with her enthusiasm and professionalism and, when Franklin speaks, her "children" listen.

"I always tell them to be on time and to 'Don't Worry, Be Happy,'" she said.



Martie Teague

When Martie Teague is faced with challenges, she pursues them wholeheartedly. This was evident even before Martie joined the NASA KSC team in 1982.

"I was persistent and called every week," said Teague of her pursuit to join NASA's secretarial pool. "I would not give up until I was brought in for an interview."

Teague's determination was especially apparent in the formation of the Safety Health and Independent Assessment (SH&IA) Directorate during the KSC 2000 reorganization.

Teague worked as a team player to establish and organize the directorate secretarial and clerical

Professional Secretaries and Administrative Assistants Day was observed on April 25. The day is a time to honor those in important support roles. NASA Kennedy Space Center recently honored two team members, Martie Teague and Valarie Franklin, with Outstanding Secretarial/Management Support Assistant Biannual Awards. The award recognizes employees in the secretarial/clerical field who demonstrate exemplary performance of their duties, show a high degree of personal integrity, establish a rapport with coworkers and display a team player attitude.

support, as well as to define overall office procedures.

"Martie is a true team player and a mentor to other clerical help in the organization," said Shannon Bartell, the director of SH&IA. "Her outgoing, friendly personality and her ability to work with all kinds of personnel makes Martie an asset not only to the center, but to NASA

as a whole."

Teague tries to make the workplace fun while maintaining a professional atmosphere.

"I feel good about my job and am honored to get this award. My grandson thinks that I push the button that launches the Shuttle. We're all a part of that process out here, no matter what we do."

Florida Women of Achievement inducts Morgan

JoAnn Morgan, Kennedy Space Center director of External Relations and Business Development, was recently honored by being inducted into the Florida Women of Achievement (FWA) documentary.

Morgan was the first woman engineer and senior executive for NASA at KSC.

Her portrait and those of other past and present FWA documentary honorees were exhibited at the Centre Gallery of Miami-Dade Community College Wolfson Campus during March, Women's History Month.

"I am proud to be included in this group of women who have dedicated their lives to improving their organizations and communities and who have led the way for others to achieve," Morgan said.

Morgan was presented with a medal by Adele Graham, wife of Sen. Bob Graham at a ceremony in Miami. She and Martha Barnett, president of the American Bar Association, were the two FWA honorees this year.



Portraitist Scherley Busch with photos of Florida Women of Achievement 2001 honorees. At left is JoAnn Morgan, first woman engineer and first woman senior executive at NASA at the Kennedy Space Center, and at right, Martha Barnett, president of the American Bar Association.

The Florida Women of Achievement documentary exhibits 48 portraits by Florida photographer Scherley Busch, known for her in-depth "environmental" portraits that place her subjects in their

natural settings.

"I want each image to capture more than what is on the surface. It needs to tell something about the character of the woman, to record a piece of history," says Busch. "To

do this, I collaborate with each honoree to get a feeling of how and where I will photograph her. The setting must reflect something special about each woman – her career, her source of inspiration, her history and/or aspirations."

Launched in 1992 with a portrait of Marjory Stoneman Douglas, Florida Women of Achievement has traveled throughout the state and nation including exhibitions in the rotunda of the Russell U.S. Senate Building in Washington, D.C., and in the Florida Governor's Mansion and the Florida State Rotunda in Tallahassee.

An FWA Web site has been developed and a more readily mobile second exhibit created.

"We are developing a program where honorees are volunteering to speak and share their vital life experiences in conjunction with exhibits," said Busch. "These women are such an inspiration to me. I want as many people to benefit from, and be motivated by learning about them."



Alumni League honored

The Canaveral Council of Technical Societies recently honored the NASA Alumni League Florida Chapter with an achievement award in appreciation of members who volunteer to support KSC external relations and the KSC Visitor Center; members who volunteer time to various KSC Community Relations Council projects; and the league donation of \$6,000 dollars to the NASA Scholarship Fund. Pictured is league president Jim Johnson being thanked for the donation by Diane Holden, former KSC coordinator for the scholarship fund, and KSC Director Roy Bridges.



April employees of the month

NASA Employees of the month for April, are, from left to right, Armando Maiz, Spaceport Services; Dian Farmer, Chief Financial Office; Bet Eldred, Workforce and Diversity Management; and Paul Schwindt, Spaceport Engineering and Technology. Not pictured are Matthew Craycraft, Shuttle Processing; Linda Achroyd, Safety, Health and Independent Assessment; Howard Smith, ISS/Payloads Processing; and Donald Johnson, ELV and Payload Carriers Program.

Inside the Launch Vehicle Data Center

Kennedy Space Center's new Launch Vehicle Data Center was successfully christened with the April 7 launch of a Delta II carrying the 2001 Mars Odyssey spacecraft.

About 100 managers and engineers from KSC, the Jet Propulsion Laboratory and other sites monitored the launch from the three new Launch Vehicle Data Center (LVDC) control rooms in Hangar AE on Cape Canaveral Air Force Station.

The LVDC works in tandem with the adjacent Mission Director Center, the control room where NASA launch managers monitor expendable vehicle launches.

KSC has served as NASA's lead center for the acquisition and management of Expendable Vehicle Launch Services since the beginning of fiscal year 1999.

"The new LVDC came through with flying colors," said Stephen Cox, Mission Director Center operations director. "Our customers were extremely pleased with the new setup and equipment."

The Hangar AE control rooms provide real-time voice, data and video information for expendable vehicle checkout and launch operations, similar to that provided by Launch Control Center (LCC) control rooms for Space Shuttle operations.

The Hangar AE control rooms give managers and engineers the ability to detect or investigate any problems — with weather, the vehicle, the payload or the pad — that may develop during operations.

Unlike the LCC, the Hangar AE facility does not provide launch command, which is located at various block houses or command centers, depending on the launch pad used.

The LVDC engineering displays are state-of-the-art and the voice communications capabilities upgraded. It took nearly six years to develop the new monitoring systems, which have been instituted in several phases.

The three new LVDC control rooms have replaced the single LVDC control room used since the mid-1970s. The LVDC was developed by NASA-KSC to support multiple test operations in parallel or a single large launch operation.

"It was a challenge to configure our old setup and space was tight," Cox said of the old 950-square-foot room that has been replaced with the three rooms totalling 2,511 square feet.

If needed, the new facility can be linked with NASA's control rooms at Vandenberg Air Force Base, Calif., that are used to launch polar-orbiting spacecraft. It could also be linked to other remote launch sites.

"We want to continue to offer world-class service to our expendable vehicle launch management team and the LVDC improvements will help us do that," Cox said.



Clockwise from above: Managers and engineers monitor preparations for the launch of the new Launch Vehicle Data Center in Hangar AE on Cape Canaveral Air Force Station. Launch Vehicles and Payload Carriers, and Mike Benik, director of ELV Launch Service Directors Center, a control room in Hangar AE that works in tandem with the LVDC. A D Two perspectives on managers and engineers in the LVDC monitoring Mars Odyssey



the 2001 Mars Odyssey from Kennedy Space Center's Steve Francois, left, program manager for Expendable Launches, monitor launch preparations from the Mission Management Team. The Delta II, carrying the Mars Odyssey, launches on April 7. Launch preparations.

KSC fosters engineering students

At KSC, it is evident that math and science are vital to life on Earth and in space, and the excitement for engineering is felt around the Center daily.

But how can this energy get beyond the limits of KSC and encourage students to take an interest in engineering?

According to the National Science Foundation, the number of students studying science and engineering has declined by more than 21 percent in the past two decades. KSC has taken an active role in helping to reverse this trend.

"We need to continue to motivate students toward future engineering careers in the space program," said Center Director Roy Bridges. "By showing them how we apply math and science on Earth and in space, we are impacting the engineering profession and shaping the future of NASA."

KSC supports a variety of programs designed to raise student interest and awareness for science and engineering. Many of these programs rely on KSC employees to reach out and share their personal experiences.

"The incredible success of these programs stems from the generosity of the many managers and mentors who give their time and resources to reach out to students," said Denise Coleman, KSC education outreach coordinator. "Most high schools don't offer engineering in their curriculum and



Co-op Lindsay Millard shows her enthusiasm in the Shuttle payload bay.

there is a lack of visible engineer role models in the media."

In addition to traditional outreach programs such as Career Days and Science and Technology Fairs, KSC also sponsors National Engineers Week, where employees participate in space and science related presentations; the Summer High School Apprenticeship Research Program, in which students are assigned to work with a KSC mentor in a specific area of science, engineering, or technology for eight weeks during the summer; For Inspiration and Recognition of Science and Technology (FIRST) Robotics Competition, for which KSC sponsors multiple high school teams and pairs them with mentors

to build a competition robot; and EarthKAM, a national program where students design an investigation using images of the Earth from space taken from a camera onboard a Shuttle mission.

It is vital, Coleman said, to introduce students science and engineering at a young age.

"Not only are the younger students extremely receptive," she said, "but they are more likely to pursue a future in engineering if they are aware of their options early on."

For more information on how you can contribute to KSC's outreach effort, visit the education Web site at www-pao.ksc.nasa.gov/kscpao/educate/educate.htm.

Co-op program valuable tool

KSC is committed to helping students who are in the process of pursuing engineering and science degrees gain invaluable hands-on experience.

The Cooperative Education (co-op) Program prepares students for engineering careers by providing them with work in areas related to their major.

"Not only have I gained experience in real world engineering through co-op, but I've also been able to sit in the command seat of Discovery, shake Dan Goldin's hand, see two Shuttle launches, and be a part of the team that keeps the Station in orbit," said Lindsay Millard, a co-op in the International Space Station Mechanical Division.

The co-op program allows students the opportunity to work for NASA full time, alternating semesters between school and work until graduation.

The co-op program is also a way to get future engineers interested in working in the space program. NASA uses the pool of co-ops as a source of potential employees.

DEBUS ...

(Continued from Page 1)

"The Debus Award honors significant contributions to our nation's space program by someone living and working here in Florida, and that's exactly what Roy Bridges is doing every day as the director of the Kennedy Space Center," Gormel said.

"His commitment to making the Cape Canaveral Spaceport a world-class launch operations center for commercial, government and military users will ensure Florida's leadership in space for many years

to come, and that's something the National Space Club Florida Committee is happy to recognize," Gormel said.

The National Space Club originally was organized as the National Rocket Club in October 1957 and was founded to stimulate the exchange of ideas and information about rocketry and astronautics, and to promote the recognition of America's achievements in aerospace. The National Space Club is a non-profit corporation whose membership includes representatives from industry, government, education and the general public.



GOES-M arrives

At the KSC Shuttle Landing Facility, the GOES-M weather satellite is offloaded from the yawning mouth of the C-5 aircraft. The satellite was transferred to Astrotech in Titusville for final testing. The GOES-M satellite is scheduled to be launched on July 12 from Launch Pad 36-A, Cape Canaveral Air Force Station.

Awareness Week enlightens team

"Launching a Mission to Conserve and Preserve" was the theme for the seventh annual Environmental and Energy Awareness Week (EEAW), celebrated April 17-20 at KSC, Cape Canaveral Air Force Station and Patrick Air Force Base.

KSC and the 45th Space Wing Environmental and Energy Awareness Team sponsored the event-filled week in celebration of Earth Day 2001.

"I am thankful to be here to celebrate this partnership and the special attitude that we have to incorporate environmental sensitivity and stewardship to make for a better future," said Center Director Roy Bridges.

"By holding this special attitude about our environment, we consistently come out with environmentally aware solutions that we can all salute."

KSC and Patrick AFB have been recognized numerous times for their environmental efforts and for going to extra lengths to preserve the scenic areas that surround us.

"The easy thing to do is to make our decisions based on the mission and budget," said Ray Lugo, the acting executive director of the Joint Program Management Office, "but we always take it one step further and look at the environmental effects. It's nice to see this recognized."

Environmental and Energy Awareness Week kicked off with an



Environmental and Energy Awareness participants share materials under a tent adjacent to KSC Headquarters.

opening ceremony April 17 in the KSC Industrial Area. The traveling event relocated daily, moving from there to the Launch Complex-39 Area, CCAFS and Patrick AFB.

A variety of environmentally conscious vendors participated with displays and exhibits available to view ... and touch!

One of the highlighted exhibitors was the Brevard Zoo. The group brought "Milk Dud" the Honduran milk snake, "Rocky" the African grey parrot, "Clown" the tiger salamander, "Monty" the ball python and "Spike" the Australian bearded dragon.

The Brevard Zoo has partici-

pated in EEAW every year.

"We believe wholeheartedly in what the space center is doing. Everyone is taking these steps as a team to do the right thing for the environment," said Nelia Lake, the education project facilitator at Brevard Zoo.

Presentations throughout the week were demonstrations by Gatorland, the Audubon Birds of Prey and the National Parks Service's Turtle Talk.

Other presentations included saving space: wildlife research on KSC; KSC sea turtles and lighting; design for the environment; the aquatic realm of KSC, seagrass,

manatees, turtles and water quality; and environmental monitoring on KSC.

"With the support of our partners, the directorates, all of the major contractors and our volunteers, EEAW has grown tremendously," said John Ryan, the environmental management systems lead. "We progressed from having 25-30 vendors just three years ago to having 85 vendors participate this year."

"This is a centerwide effort and we hope that everyone practices environmental awareness beyond just this week, to make it a year-round endeavor."

STS-100 ...

(Continued from Page 1)

Visitors were treated to temperate weather with a high of 72 degrees and an on-time launch at 2:40:42 p.m.

"This was definitely the biggest launch for KSC since the John Glenn launch," said Debbie Frostrom, chief of guest services and special events.

NASA logistics engineer Nick Devillo, who has worked at KSC for about one month, watched the launch from the causeway with five guests, including his wife and children.

"A friend gave me a pass," Devillo said. "It's a great morale booster to watch the launch with your family and friends."



Jim Ogle, left, a senior avionics engineer with The Boeing Co. who has worked in the space program since 1958, awaits the launch of STS-100 with his wife, Barbara, and six friends from Palm Beach. Ogle was one of the lucky members of his work group at the NASA Shuttle Logistics Depot who won NASA Causeway launch passes through a lottery selection. His group was one of 15,000 on the causeway. "It's only the second launch pass I've ever gotten," Ogle said. "It's wonderful to be able to bring out family and friends to watch the launch up close."



Manatee release

Below, spectators and photographers gather around an adult manatee Sea World workers released April 3 into the Banana River on the north side of the NASA Causeway. The weight of the 2,000-pound manatee, named "Samantha," necessitated the use of a hoist. Space Gateway Support provided crane support for the release. At left, Sea World workers waded into the Banana River while they steady the hoist and sling carrying Samantha. Workers also released a calf named "Ulee." The two manatees were released after recovering from injuries. Manatees are frequently seen in the waters around Kennedy Space Center, which is surrounded by the Merritt Island National Wildlife Refuge.



38th Space Congress set for May 1-4

The 38th Space Congress will be held May 1-4 at the Radisson Resort at the Port in Cape Canaveral.

This year's theme is "A Space Odyssey – The Next 50 Years."

Space Congress – sponsored by the Canaveral Council of Technical Societies – is an international conference aimed primarily towards professionals in the space business and also professionals from all the peripheral industries and disciplines that make space transportation and exploration possible.

Each year Space Congress features paper and panel sessions, exhibits, a science fair, a golf tournament and networking events.

The 38th Space Congress will begin with the keynote address, to be given by Gen. Ralph Eberhart, commander in chief, U.S. Space Command, and commander, Air Force Space Command.

Retired Lt. Gen. and astronaut Tom Stafford will be the guest speaker at the Space Congress Banquet on May 1.

Session speakers, many of whom are Kennedy Space Center scientists and engineers, will discuss how space exploration efforts have increased our understanding of space and how ground-based space program technologies apply to everyday life.

For more information or to register, see the Space Congress Web site at www.spacecongress.org.



Bone marrow recipient dies

Kevin Castine of Champlain, N.Y., who received bone marrow from NASA-KSC employee Ed Markowski in January 1999, passed away on March 26, 2001.

Castine, who had chronic myelogenous leukemia, was 44 years old. He is survived by his wife, Penny, and son, Brandon.

Castine met Markowski for the first time on the stage of the KSC training auditorium in February 2000 and again in January 2001 in Champlain.

The two meetings marked the first and second anniversaries of

the successful transplant.

Markowski, who attended Castine's funeral, expressed his gratitude for the successful transplant and the 26 wonderful months that followed.

"Would I do it again? In a heartbeat," Markowski said. "It was a life-changing event. I'm thankful to have made a difference in Kevin's life, and now I'm part of his family."

Expressions of sympathy may be sent to Penny and Brandon Castine, 102 Tallman Road, Champlain, NY 12919.



John F. Kennedy Space Center

Spaceport News

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